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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2022-10-21-01 Date: 25-10-22
Project Name	:	PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency	:	Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer Reference	:	EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt	:	21-10-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-10-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	185	185	3.7	96.3	90-100
3	10 mm	2215	2400	48.0	52.0	25-55
4	4.75 mm	2378	4778	95.6	4.4	0-10
5	Pan	222	5000	100	0	

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-10-21-01** **Date: 25-10-22**
Project Name	:	PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency	:	Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference	:	EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt	:	21-10-22
Sample Type	:	JSW 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-10-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.35	–
2	Finess by Air permeablity method (m^2/kg,Min)	295.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Technical Manager

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2022-10-21-01** **Date: 23-10-22**
Project Name	:	PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly
Agency	:	Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer Reference	:	EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt	:	21-10-22
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	21-10-22
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-10-29-01** **Date: 05/11/2022**
Project Name	:	PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency	:	Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference	:	EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt	:	29-10-22
Customer ID	:	Cement Concrete Pavement- Kamath Layout
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement- Kamath Layout	M30	29/10/2022	05/11/2022	150.64 X 150.05 X 150.20	22603	8.220	575.8	25.5	25.5
2	Cement Concrete Pavement- Kamath Layout	M30	29/10/2022	05/11/2022	150.40 X 150.43 X 151.14	22624	8.787	600.6	26.5	
3	Cement Concrete Pavement- Kamath Layout	M30	29/10/2022	05/11/2022	149.29 X 150.97 X 150.50	22539	9.067	550.9	24.4	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-11-03-01** **Date: 08/11/2022**
Project Name	:	PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency	:	Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference	:	EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt	:	03-11-22
Customer ID	:	Cement Concrete Pavement- Wave Ultra Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/11/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement- Wave Ultra Road	M30	01/11/2022	08/11/2022	151.05 X 151.72 X 151.21	22917	9.078	595.1	26.0	25.4
2	Cement Concrete Pavement- Wave Ultra Road	M30	01/11/2022	08/11/2022	150.97 X 151.55 X 150.93	22880	8.474	597.9	26.1	
3	Cement Concrete Pavement- Wave Ultra Road	M30	01/11/2022	08/11/2022	150.53 X 150.24 X 151.75	22616	8.600	543.7	24.0	

* The results obtained are satisfactory as per standard requirements.

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Technical Manager

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A1

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-10-21-01** **Date: 25-10-22**

Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants

Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23

Date of Receipt : 21-10-22

Sample Type : Fine Aggregate (M-Sand)

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 21-10-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	72	104	10.4	89.6	60-95	75-100	85-100	95-100
4	1.18 mm	248	352	35.2	64.8	30-70	55-90	75-100	90-100
5	600 micron	245	597	59.7	40.3	15-34	35-59	60-79	80-100
6	300 micron	215	812	81.2	18.8	5-20	8-30	12-40	15-50
7	150 micron	125	937	93.7	6.3	0-10	0-10	0-10	0-15
8	Pan	63	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-10-21-01** **Date: 25-10-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.94	-
2	Specific Gravity	2.55	-
3	Material finer than 75 micron(%)	6.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

31/10/2022

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Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-10-21-01** **Date: 25-10-22**
Project Name	:	PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency	:	Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer Reference	:	EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt	:	21-10-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-10-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	185	185	3.7	96.3	90-100
3	10 mm	2215	2400	48.0	52.0	25-55
4	4.75 mm	2378	4778	95.6	4.4	0-10
5	Pan	222	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-10-21-01** **Date: 25-10-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

AS

AS
pd. testing & put up
V.T. Nandkumar 31/10/2022

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.
R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-10-01** **Date: 15/11/2022**

Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants

Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23

Date of Receipt : 10-11-22

Customer ID : Cement Concrete Pavement- Near Nice Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement- Near Nice Road	M30	08/11/2022	15/11/2022	151.54 X 151.90 X 150.43	23018	8.351	577.9	25.1	25.4
2	Cement Concrete Pavement- Near Nice Road	M30	08/11/2022	15/11/2022	149.22 X 151.58 X 149.29	22620	8.290	610.1	27.0	
3	Cement Concrete Pavement- Near Nice Road	M30	08/11/2022	15/11/2022	150.64 X 149.69 X 151.13	22549	8.740	546.1	24.2	

* The results obtained are satisfactory as per standard requirements.

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Technical Manager

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****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-11-01** **Date: 17/11/2022**

Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants

Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23

Date of Receipt : 11-11-22

Customer ID : Cement Concrete Pavement- Jai Maruthi Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement- Jai Maruthi Layout	M30	10/11/2022	17/11/2022	149.07 X 149.68 X 151.63	22313	8.320	560.0	25.1	25.6
2	Cement Concrete Pavement- Jai Maruthi Layout	M30	10/11/2022	17/11/2022	150.10 X 149.97 X 151.22	22510	9.006	601.6	26.7	
3	Cement Concrete Pavement- Jai Maruthi Layout	M30	10/11/2022	17/11/2022	151.56 X 151.97 X 150.14	23033	8.344	573.5	24.9	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2022-09-26-01 **Date: 23-09-22**

Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants

Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23

Date of Receipt : 19-09-22

Sample Type /Size : Precast Cover Slab (100 mm Thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 19/09/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.02	100.04	1.425	7856	135.5	17.2	16.0	20.1
2	Cover Slab-2	100.03	100.02	1.321	7857	129.5	16.5	15.3	19.2
3	Cover Slab-3	100.01	100.01	1.256	7854	145.5	18.5	17.2	21.5

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2022-09-26-01	Date: 22-10-22
Project Name	:	PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelehanka Assembly Constituency Under Amrutha Nagarothana Grants	
Agency	:	Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045	
Customer's Reference	:	EE(Project)/Ynk Zone/WO/020/2022-23	
Date of Receipt	:	18-10-22	
Sample Type /Size	:	Precast Cover Slab (230 mm Thick)	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete	
Date of test	:	18/10/2022	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.01	100.02	1.895	7854	185.5	23.6	22.0	27.5
2	Cover Slab-2	100.02	100.01	1.763	7856	172.3	21.9	20.4	25.5
3	Cover Slab-3	100.03	100.00	1.698	7857	169.5	21.6	20.1	25.1

* The results obtained are satisfactory as per standard requirements.

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